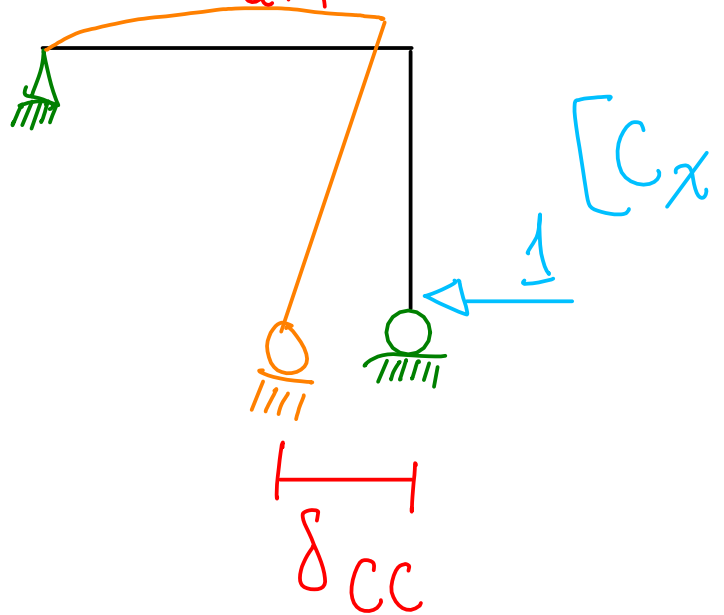
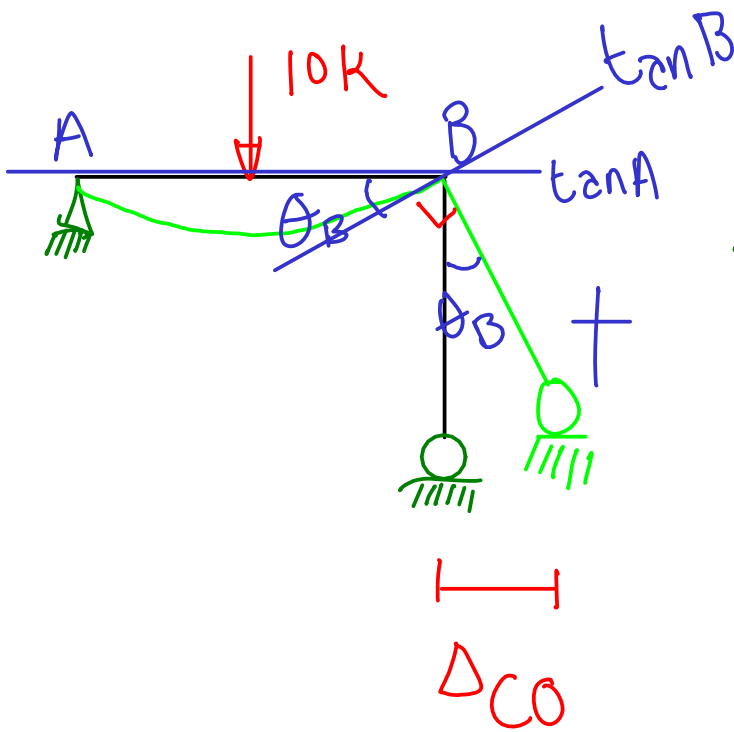


¿R & M?

$$\tan \theta = \frac{CO}{Ca}$$

$$Ca \tan \theta = CO$$

$$\tan \theta = \theta \quad Ca \theta = CO$$



Ec. Compatibilidad

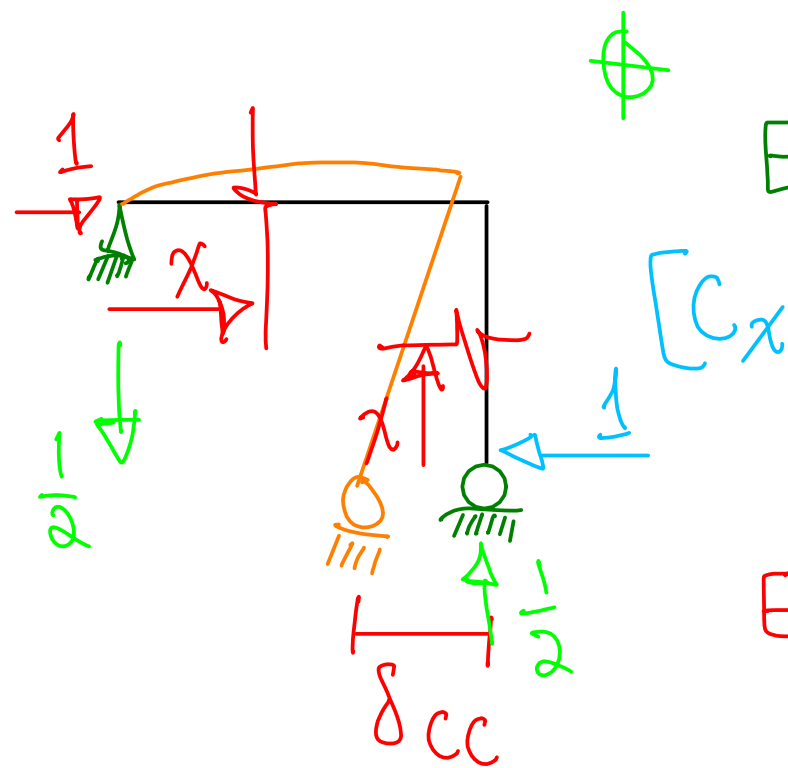
$$\Delta_{CO} + \delta_{CC} C_x = 0$$

$$\theta_B = \frac{PL^2}{16EI} = \frac{(10)(12)^2}{16EI} = \frac{90}{EI}$$

$$\Delta_{CO} = \frac{90}{EI} (6') = \frac{540}{EI} \rightarrow$$

δ_{CC}

Miembro	Origen	Limites	M_p	M_Q
AB	A	0-12	$\frac{1}{2}x$	$\frac{1}{2}x$
BC	C	0-6	x	x



$$EI \cdot 1K \delta_c = \int_0^{12} \left(\frac{1}{2}x\right) \left(\frac{1}{2}x\right) dx + \int_0^6 x(x) dx$$

$$EI \cdot 1K \delta_{CC} = \frac{x^3}{12} \Big|_0^{12} + \frac{x^3}{3} \Big|_0^6$$

$$144 + 36 \cdot 2 = 216$$

$$\delta_{CC} = \frac{216}{EI} \leftarrow$$

$$\frac{540}{EI} - \frac{216}{EI} C_x = 0$$

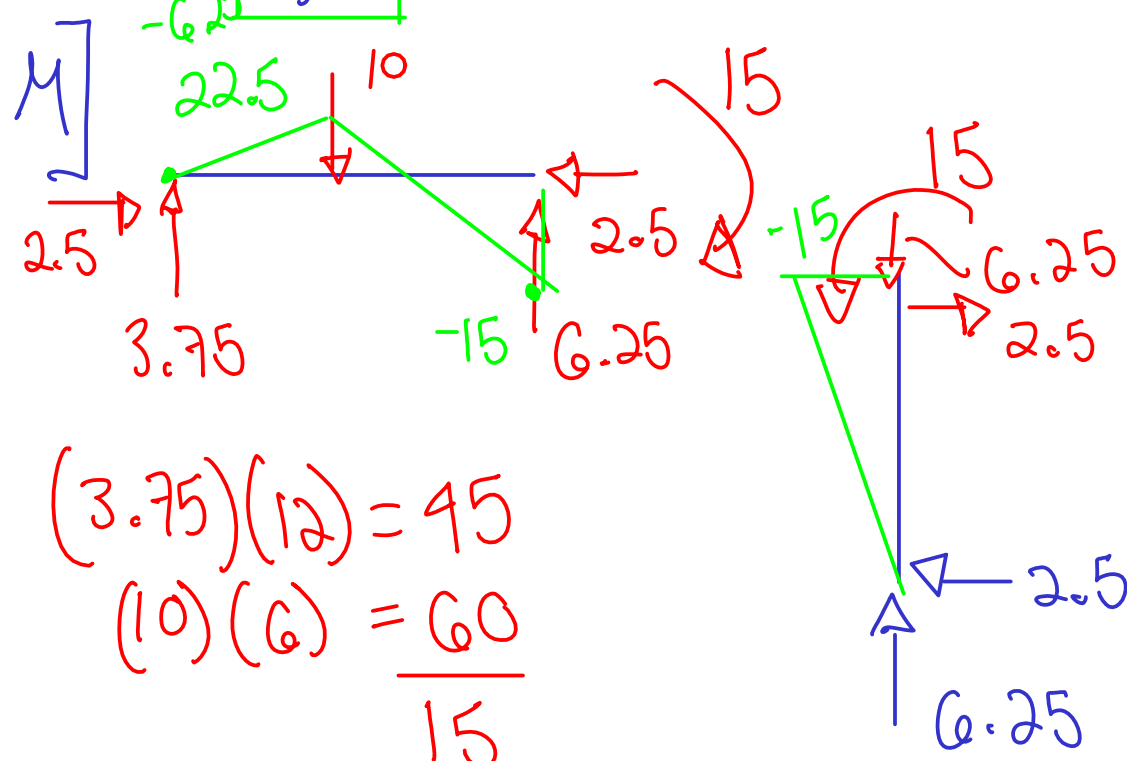
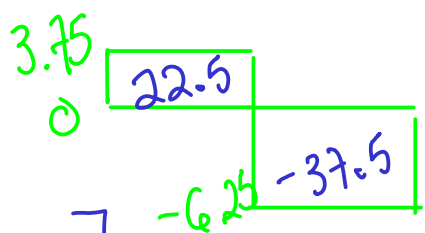
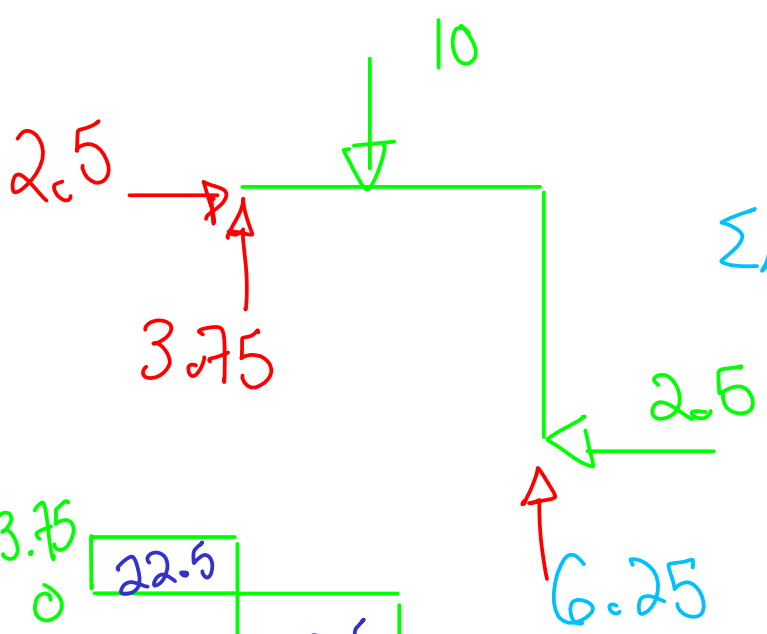
$$C_x = 2.5$$

$$\sum M_A = 10(6) + 2.5(6) - C_y(12) = 0$$

$$C_y = 6.25 \text{ K}\uparrow$$

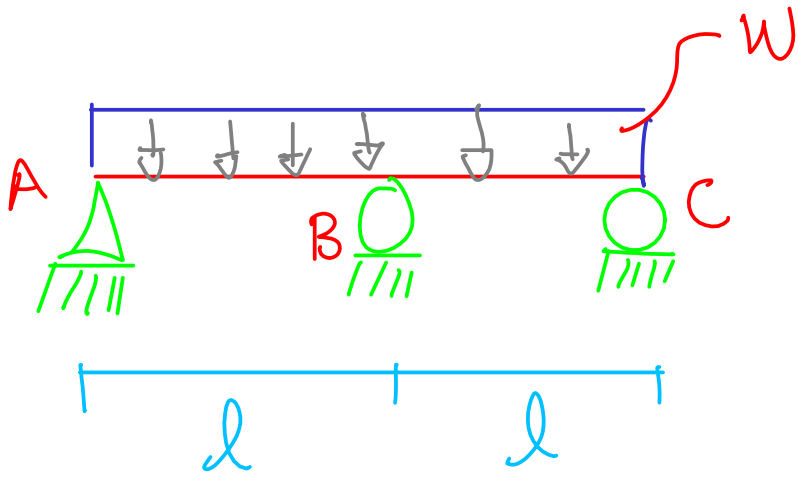
$$\sum F_y = -10 + 6.25 + A_y = 0$$

$$A_y = 3.75 \text{ K}\uparrow$$



$$\begin{aligned} (3.75)(12) &= 45 \\ (10)(6) &= 60 \\ \hline &15 \end{aligned}$$

$$(2.5)(6) = 15$$



∫ R?

∫ V & M?

$EI = \text{cte.}$